## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION                  | INITIALS | ID NO. | DATE      |
|---------------------------|----------|--------|-----------|
|                           |          |        |           |
| FEE DETERMINATION         | SIMMY    |        | 58 30 21  |
| O.I.P.E. CLASSIFIER       | mw       | 1 50   | 169-05-01 |
| FORMALITY REVIEW          | TD       | IOK    | 10020     |
| RESPONSE FORMALITY REVIEW |          |        |           |
|                           |          |        |           |

## **INDEX OF CLAIMS**

| v | Rejected                   | N | Non-elected  |
|---|----------------------------|---|--------------|
|   | Allowed                    | 1 | Interference |
| _ | (Through numeral) Canceled | Α | Appeal       |
| ÷ | Restricted                 | 0 | Objected     |

Claim

|          |                |                         |              |          |          |           |   | ÷        |     | ••• | ••••         | ••       |          | ••••      | •••••    |
|----------|----------------|-------------------------|--------------|----------|----------|-----------|---|----------|-----|-----|--------------|----------|----------|-----------|----------|
| Cla      | aim            |                         | _            |          |          |           | [ | Dat      | е   | _   |              | _        | _        | _         |          |
|          | $\Box$         | 20                      | 3            | Ţ        |          |           | T |          |     | T   |              | Γ        | T        |           |          |
| Final    | griginal       | PE                      | 2            | Ŀ        |          |           | İ |          |     |     |              |          | l        |           | li       |
| Ē        | ō              | \$                      | Ø            | 1        |          |           | ┸ |          | L   |     |              | L        | ╛        |           |          |
|          | Ž              | V                       |              |          |          |           |   |          |     |     |              | L        |          |           |          |
|          | 2              | V                       | ě            | ·T       |          |           | Ţ |          |     |     |              |          |          |           |          |
|          | 3              | <b>V</b>                | ī            | T        |          |           | Ī |          |     |     |              | Γ        |          |           |          |
|          | 4              | $\overline{\mathbf{v}}$ | П            | 1        | _        |           | T |          | Г   |     |              | Ī        |          |           |          |
|          | (5             | 0                       | П            | F        |          |           | T |          | Г   |     |              | Γ        |          |           |          |
|          | 6              | U                       | П            | Τ        |          |           | T |          |     |     |              |          |          |           |          |
|          | 7              | Ø                       | П            | T        |          | Г         | T |          | Γ   | ٦   |              | Γ        |          |           |          |
|          | 78             | 10                      | П            | T        |          |           | T |          |     |     |              |          |          |           |          |
|          | 9              | 0                       | П            | T        |          |           | T |          | Γ   | -   |              | Γ        |          |           |          |
|          | 10             | V                       | П            |          |          |           |   |          | Г   |     |              | Γ        |          |           |          |
|          | 11             | V                       | П            | T        | _        | Г         | T |          | Γ   | ٦   |              | Τ        |          |           |          |
|          | 12             | V                       | П            | 1        |          |           | 1 |          |     | ٦   |              | Τ        |          |           |          |
|          | T3             | E                       | i            | -1       |          | Γ         | 7 |          | T   |     |              | T        |          |           |          |
|          | . 14           | 5                       | T            | 7        |          | Γ         | 1 |          | Γ   |     |              | T        | П        |           |          |
| _        | 15             | Ź                       | Π            | 1        |          | Γ         | 7 |          | T   | T   |              | T        |          |           |          |
|          | 16             | =                       | 11           | 1        |          | Γ         | 1 |          | T   | ٦   | r            | Ť        |          |           |          |
|          | 17             | 1=                      | П            | T        |          | T         | 1 |          | t   |     |              | T        |          |           |          |
|          | 18             | =                       | П            | П        |          | Ī         | 1 |          | T   |     | _            | Ť        | _        |           |          |
|          | 19             | 1                       | П            | T        |          | Γ         | 1 |          | Ī   |     |              | Ť        |          |           | 1        |
| -        | 20             |                         | H            | H        |          | T         | 1 |          | t   |     | Г            | t        |          |           |          |
| -        |                |                         | 19           | +        | _        | H         | 7 | _        | t   | _   | Н            | t        | _        | H         | 1-       |
| ٠.       | 13             | 7                       | ╁            | +        |          | t         | ┪ | _        | t   | -   | ┢            | †        |          | ╁         |          |
|          | 22<br>23<br>23 | V                       | ╁            | +        |          | t         | ┪ |          | t   | _   | ┪            | †        |          | H         | $\vdash$ |
| -        | 24             | lν                      | <del>/</del> | +        |          | t         | ┪ |          | t   |     | -            | †        |          | ┢         | $\vdash$ |
| -        | 25             | -                       | ↟            | ┪        |          | t         | 1 | _        | t   |     | ┢            | +        |          | H         | ┢        |
| -        | 26             | V                       | 十            | 1        | _        | t         | ┪ |          | t   | _   | <del> </del> | †        |          | T         |          |
| ┢        | 26<br>√27      | Ť                       | ,            | 7        | _        | t         | 1 |          | t   |     | H            | †        |          | t         | +-       |
| -        | 4              | 10                      | +            | $\dashv$ | _        | t         | ٦ |          | t   |     | t            | 1        |          | H         | $\vdash$ |
| H        | 120            | 10                      | 1            | ٦        |          | t         | _ |          | t   |     | $\vdash$     | +        |          | ╁         | 1        |
| ┢        | 3              | t                       | オ            | ٦        |          | t         | - |          | t   |     | ┢            | +        |          | t         | ╁╴       |
| -        | 3              | È                       | و او         | _        |          | t         | _ | -        | t   | _   | $\vdash$     | 1        |          | t         | ✝        |
| ┢        | 32             |                         | 45           | Н        |          | t         | _ | Н        | †   |     | 十            | 1        |          | $\dagger$ | T        |
|          | 33             |                         | 1            | Н        |          | +         |   | $\vdash$ | †   |     | +            | +        |          | t         | +        |
| ٦        | 34             |                         | +            | H        | $\vdash$ | $\dagger$ |   | ┢        | +   |     | t            | 1        |          | ٢         | T        |
| $\vdash$ | 35             |                         | +            | ۲        | Ι        | +         | _ | $\vdash$ | +   |     | ۲            | +        |          | 十         | +        |
| H        | 36             |                         | +            | t        | $\vdash$ | †         | _ | $\vdash$ | +   |     | ۲            | 1        |          | t         | +        |
| H        | 37             |                         | +            | H        | $\vdash$ | +         |   | $\vdash$ | +   |     | +            | +        |          | t         | +        |
| $\vdash$ | 38             |                         | _            | ۲        | $\vdash$ | +         | - | $\vdash$ | +   |     | +            | $\dashv$ | _        | +         | +        |
| H        | 39             |                         | #            | ١        | $\vdash$ | +         | - | $\vdash$ | +   |     | +            | -        | -        | $^{+}$    | +        |
| $\vdash$ | 40             | 1                       | 1            | ٢        | $\vdash$ | +         | - | ╁        | +   |     | 十            | 4        |          | +         | +        |
| 1        |                |                         | +            | T        | ⊢        | +         |   | ₽        | 4   |     | ╁            | -        |          | +         | +        |
| ⊢        | 13             | Ŋ.                      | 4            | -        | $\vdash$ | +         |   | ⊦        | 4   |     | ╀            | 4        | H        | +         | +        |
| $\vdash$ | 4              |                         |              | =        | ├-       | +         |   | +        | 4   | _   | ╀            |          | μ.       | +         | +        |
| $\vdash$ | 12             | 3) 2                    | 4            | +        | -        | +         | _ | $\vdash$ | 4   |     | +            | _        | _        | +         | +        |
| L        | -14            | \$c                     | 4            | +        | $\vdash$ | 4         |   | 1        | 4   |     | 1            | _        | L        | +         | +        |
| $\vdash$ |                | )(                      |              | 4        | $\vdash$ | 4         |   | 1        | 4   | _   | ╀            | _        | _        | +         | +        |
| -        |                | <u>y</u>                |              | 4        | $\vdash$ | +         | _ | ╀        | -   |     | +            |          | $\vdash$ | +         | -        |
| -        | 4              |                         | 4            | 4        | ┞        | +         |   | ╀        | 4   |     | 4            |          | _        | +         |          |
| H        | 4              | Į(                      | 4            | 7        | $\vdash$ | 4         | _ | ╄        | 4   | _   | 4            |          | <u> </u> | +         | +        |
| $\vdash$ | 150            |                         | 4            | t        | $\vdash$ | +         | _ | $\vdash$ | 4   | _   | +            | _        |          | +         | +        |
| 1        | 1.56           | 100                     | . 14         | ~        | 1        | - 1       |   | 1        | - 3 |     |              |          |          |           |          |

| Cla      | im       |               | Date           |              |    |          |              |              |              |              |           |              |  |  |  |  |
|----------|----------|---------------|----------------|--------------|----|----------|--------------|--------------|--------------|--------------|-----------|--------------|--|--|--|--|
| Final    | Original |               |                |              | T  |          |              |              |              |              |           |              |  |  |  |  |
| Ϊ        |          | _             | ļ.             |              | +  | 4        |              | ļ            | <u> </u>     | ļ            | $\perp$   | Ш            |  |  |  |  |
|          | 51       | 11            | وإراباء        | ļ            | 4  | -        |              | <u> </u>     | <u> </u>     | <u> </u>     | ↓_        | Ц            |  |  |  |  |
|          | 52       | _             | 3              | L            | +  | $\dashv$ |              | _            | $\vdash$     | <u> </u>     | ╀         | _            |  |  |  |  |
|          | 53       | $\vdash$      | <u> </u>       | $\vdash$     | +  | _        |              | _            | igspace      | 1            | +         | igspace      |  |  |  |  |
|          | 54<br>55 | <u> </u>      | -              | -            | +  | $\dashv$ | <del> </del> | $\vdash$     | $\vdash$     | ╀            | +-        | -            |  |  |  |  |
| _        | 56       | ⊢             | $\vdash$       | ⊢            | +  | -        |              | -            | $\vdash$     | $\vdash$     | +         | $\vdash$     |  |  |  |  |
| _        | 57       | -             | $\vdash$       | $\vdash$     | +  | $\dashv$ | $\vdash$     | ⊢            | +-           | ┼-           | +         | -            |  |  |  |  |
| _        | 58       | $\vdash$      | <del>  -</del> | $\vdash$     | +  | 7        |              | $\vdash$     | +            | +            | +-        | $\vdash$     |  |  |  |  |
|          | 59       | $\vdash$      | $\vdash$       | $\vdash$     | †  | _        |              | 1            | +            | +            | $\dagger$ | $\vdash$     |  |  |  |  |
|          | 60       | -             | T              | $\vdash$     | †  |          | $\vdash$     | 1            | Τ_           | +            | 1_        | $\top$       |  |  |  |  |
|          | 61       |               |                | 仁            | Ţ  |          |              | <u> </u>     | 1_           | 乀            | †_        | Τ            |  |  |  |  |
|          | 62       | 匚             |                |              | 1  |          |              |              | Ĺ            | t            | L         |              |  |  |  |  |
|          | 63       |               |                | L            | 1  |          |              | L            | L            | L            | L         | L            |  |  |  |  |
|          | 64       | -             | L              | L            | 1  | _        | L            | L            | L            | L            | 1         | _            |  |  |  |  |
| _        | 65       | -             | L              | L            | 4  |          | Ļ            | <u> </u>     | $\downarrow$ | $\downarrow$ | $\perp$   | _            |  |  |  |  |
| _        | 66       | -             | -              | 4            | +  |          | _            | 1            | +            | +            | +         | $\downarrow$ |  |  |  |  |
| <u> </u> | 67       |               | ┼              | +            | +  | _        | $\vdash$     | $\vdash$     | +            | +            | +         | $\vdash$     |  |  |  |  |
| <u> </u> | 68       | •             | +              | +            | +  |          | ├-           | +            | +            | +            | +         | +            |  |  |  |  |
| $\vdash$ | 69       | +-            | +-             | +            | +  |          | ⊢            | +            | +            | +            | +         | +            |  |  |  |  |
|          | 70       | -             | $\vdash$       | +            | +  |          | ╀            | ┼-           | +            | +            | +         | +            |  |  |  |  |
| <u> </u> | 71<br>72 |               | +              | +            | +  | _        | ├-           | +            | +            | +            | +         | +            |  |  |  |  |
| $\vdash$ | 73       |               | +              | +            | +  | _        | +            | +            | +            | +            | +         | +            |  |  |  |  |
| $\vdash$ | 74       |               | +              | +            | +  | _        | $\vdash$     | +            | +            | +            | +         | +            |  |  |  |  |
| H        | 75       | -             | +-             | +            | 7  | _        | +            | +            | +            | +            | +         | +            |  |  |  |  |
| $\vdash$ | 76       | +-            | $\dagger$      | †            | 7  |          | +            | $\dagger$    | $\dagger$    | +            | +         | $\dagger$    |  |  |  |  |
|          | 77       | _             | †_             | †            | ]  | Γ        | †_           | 1_           | 乀            | t            | 1         | 1_           |  |  |  |  |
|          | 78       |               | 乚              | t            | ]  |          | 仜            | T            | T            | I            | I         | T            |  |  |  |  |
|          | 79       | -             | L              | l            |    | Ĺ        | L            | L            | l            | ļ            | l         | ]_           |  |  |  |  |
| Ĺ        | 80       |               | ]              | 1            | لَ | Ĺ        | l            | 1            | 1            | 1            | 1         | _            |  |  |  |  |
|          | 81       | -             | _              | 1            |    | L        | Ļ            | _            | 1            | +            | $\perp$   | 4            |  |  |  |  |
| L        | 82       | $\overline{}$ | 1              | +            | _  | ļ        | $\perp$      | +            | $\bot$       | 4-           | +         | 4_           |  |  |  |  |
| $\vdash$ | 83       | -             | +              | +            | _  | L        | $\perp$      | +            | +            | +            | +         | +            |  |  |  |  |
| -        | 84       | _             | +              | +            |    | $\vdash$ | +            | +            | +            | +            | +         | +            |  |  |  |  |
| $\vdash$ | 86       | _             | +              | +            | _  | $\vdash$ | +            | +            | +            | +            | +         | +            |  |  |  |  |
| $\vdash$ | 87       | -             | +              | +            |    | ├-       | +            | +            | +            | +            | +-        | +            |  |  |  |  |
| $\vdash$ | 88       | _             | +              | +            | _  | $\vdash$ | +-           | +            | +            | +            | +         | +            |  |  |  |  |
| $\vdash$ | 89       | _             | +              | +            |    | $\vdash$ | +            | +            | +            | $\dagger$    | +         | $\top$       |  |  |  |  |
|          | 90       |               | $\top$         | 7            | _  | -        | -            | $\top$       | †            | T            | 一         | 十            |  |  |  |  |
| $\vdash$ | 91       | -             | +              | $\dagger$    |    | T        | $\dagger$    | $\top$       | $\top$       | $\top$       | +         | $\top$       |  |  |  |  |
| $\vdash$ | 92       | 2             | 十              | 7            | _  | T        | 十            | $\dagger$    | 十            | 十            | $\top$    | $\top$       |  |  |  |  |
| Г        | 93       | _             | $\top$         | T            | _  | t        | I            | İ            | I            | I            | $\top$    | İ            |  |  |  |  |
|          | 9        | 4             | T              | I            | _  |          | I            | I            | I            | I            | I         | I            |  |  |  |  |
|          | 98       |               | I              | I            | _  | L        | I            | I            | $\Box$       | $\Box$       | $\Box$    |              |  |  |  |  |
| L        | 90       | _             | 1              | $\downarrow$ | _  | L        | 1            | 1            | ŀ            | 1            | $\perp$   | 1            |  |  |  |  |
| L        | 97       | _             | 1              | 1            |    | L        | 1            | 1            | 4            | 4            | 4         | $\perp$      |  |  |  |  |
| L        | 98       |               | $\perp$        | 4            |    | 1        | $\downarrow$ | $\downarrow$ | _            | 4            | +         | +            |  |  |  |  |
| - 1      | 199      | 9             | - 1            | - 1          |    | 1        | 1            | - 1          | 1            | - 1          | - 1       |              |  |  |  |  |

| CIB      |          |               | _       |         |   | _         |           | <i>-</i> | <u>-</u> | _ |          |              | <b></b> |          | _       |   |
|----------|----------|---------------|---------|---------|---|-----------|-----------|----------|----------|---|----------|--------------|---------|----------|---------|---|
| Final    | Original |               |         |         |   |           |           |          |          |   |          |              |         |          |         |   |
|          | 101      |               |         | T       |   |           | T         |          |          | T |          |              | T       | T        |         |   |
|          | 102      |               |         | T       |   |           | 1         |          |          | T |          |              | T       | 7        |         | l |
|          | 103      |               |         | Ť       |   |           | Ţ         |          |          | 1 |          |              | T       | ٦        |         |   |
|          | 104      |               |         | †       | _ | <u> </u>  | $\dagger$ |          | Γ        | † |          |              | Ť       | 7        | _       | l |
|          | 105      |               |         | Τ       |   | Г         | T         |          |          | Ī |          |              | T       | Т        |         |   |
|          | 106      |               |         | I       |   |           |           |          |          |   |          |              | l       |          |         |   |
|          | 107      |               |         |         |   |           |           |          |          |   |          |              |         |          |         |   |
|          | 108      |               |         | Ţ       |   | L         |           | _        | L        |   |          |              | 1       |          |         |   |
|          | 109      |               |         | 1       |   | L         | _         |          | L        | 1 | _        | L            | 1       |          |         | ļ |
| L        | 110      | -             | L       | $\perp$ |   | L         | _         |          | L        | ╛ |          | L            | 1       | _        |         |   |
|          | 111      | -             | L       | 4       |   | L         | 4         |          | L        | 4 |          | L            | 1       | _        |         | 1 |
|          | 112      |               | L       | 1       |   | L         | 4         |          | L        | 4 |          | L            | 1       | _        | _       | ļ |
| _        | 113      | +             | L       | 4       |   | L         | 4         |          | Ŀ        |   |          | L            | 4       | _        |         | 1 |
|          | 114      |               | Ļ       | 4       | _ | L         | 4         |          | L        | _ |          | L            | 4       |          |         | 1 |
| <u> </u> | 115      | _             | ┖       | 4       |   | Ļ         | 4         |          | Ļ        | 4 |          | L            | 4       | _        |         | 1 |
| Ļ        | 116      |               | L       | 4       |   | Ļ         | 4         |          | L        | - |          | L            | 4       |          | _       | 1 |
| L        | 117      |               | 1       | 4       |   | ╀         | -         |          | ╀        | 4 | _        | L            | 4       | _        |         | ┨ |
| L        | 118      | +             | ┡       | 4       |   | ╀         | 4         |          | ╀        | 4 |          | ╀            | 4       |          | _       | 1 |
| L        | 119      | -             | ╀       | 4       |   | ╀         | 4         |          | 1        | 4 | -        | ┡            | 4       |          | -       | 4 |
| <u></u>  | 120      | -             | ┖       | 4       |   | Ļ         | _         |          | Ļ        |   |          | Ļ            | 4       |          | _       | 1 |
| ┕        | 12       | -             | ╀       | 4       |   | 1         | _         |          | 1        |   |          | 1            | _       |          | L       | 4 |
| <u></u>  | 122      |               | ╀       | _       |   | ļ         | _         |          | +        | _ |          | ╀            | 4       |          | L       | 4 |
| L        | 12       |               | +       | 4       |   | 1         | 4         |          | ╀        |   | _        | ╀            | 4       |          |         | 4 |
| L        | 12       | _             | 4       |         | _ | +         | _         | _        | +        |   | _        | ╀            | 4       |          | _       | 4 |
| L        | 12       | _             | ╀       | -       |   | +         | _         |          | +        |   | -        | +            | 4       | _        | ⊢       | ┨ |
| $\vdash$ | 126      | $\overline{}$ | +       | 4       |   | +         |           | -        | +        |   | ⊢        | ╀            | 4       | _        | ⊢       | 4 |
| $\vdash$ | 12       |               | +       | 4       |   | +         |           |          | +        |   | H        | ╀            |         | _        | -       | 4 |
| $\vdash$ | 12       |               | +       |         | _ | +         | _         | H        | +        |   | H        | ╁            |         |          | ┝       | ┨ |
| H        | 13       |               | ╁       | -       |   | +         | _         | H        | +        |   | ┝        | ╁            | -       |          | ┝       | 1 |
| $\vdash$ | 13       |               | ╁       | ᅱ       | _ | +         | -         | ┝        | +        |   | ├-       | +            | -       | $\vdash$ | ┝       | ┨ |
| $\vdash$ | 13       |               | +       |         |   | +         |           |          | +        |   | ┝        | ╁            |         |          | H       | ┪ |
| H        | 13       | _             | t       |         | _ | $\dagger$ |           | Н        | +        |   | $\vdash$ | $^{\dagger}$ |         | $\vdash$ | H       | ٦ |
| $\vdash$ | 13       |               | $^{+}$  | -       | _ | $\dagger$ |           | H        | †        | _ | t        | t            | _       | -        | t       | ┨ |
| Г        | 13       |               | ✝       | _       |   | †         |           |          | †        |   | T        | T            |         | Г        | T       | ٦ |
| Г        | 13       | 6             | †       |         |   | Ť         |           | Г        | 1        |   |          | Ť            |         | Г        | T       | 1 |
|          | 13       | 7             | 1       |         |   | T         |           | Г        | 1        |   | T        | Ţ            |         |          | T       | ٦ |
| Г        | 13       | 8             | 1       |         | Г | T         |           | Ī        | 1        |   | Τ        | 1            |         |          | Т       |   |
| Γ        | 13       | 9             | T       |         |   | Ţ         |           | Γ        | Ţ        |   |          | I            |         |          | Τ       |   |
| Г        | 14       | 0             | Т       |         | Γ | Т         |           |          |          |   |          | 1            |         |          | Τ       |   |
| Г        | 14       | 11            | T       |         | Г | 7         | _         | Г        | T        |   | Γ        | T            |         | Г        | Τ       |   |
| Г        | 14       | 12            | 1       |         | Г | 1         |           | T        | 1        |   | T        | T            |         | Г        | T       |   |
| Г        | 14       | 13            | T       |         | Г | T         |           | Γ        | 1        |   | Γ        | 1            |         |          | Τ       |   |
| Γ        | 14       | 14            | 1       |         | Γ | 1         |           | Г        | 7        |   | Π        | T            |         |          | Τ       |   |
|          | 14       | 5             | ]       |         |   | J         |           | Ι        | j        |   | Ι        | Ī            |         |          | Ι       |   |
|          | 14       |               | I       |         | Ĺ | $\int$    |           | L        |          |   |          |              |         |          | Γ       |   |
|          | 14       | 17            | Ī       |         |   |           |           |          | $\int$   | _ |          |              |         |          |         |   |
| L        | 14       | 18            | $\perp$ |         | L |           |           | L        | _        |   | L        | 4            |         | L        | 1       |   |
| L        | 14       | 19            | 4       |         | L | Ц         |           | Ļ        | 1        |   | L        | _            |         | ╀        | $\perp$ |   |
|          | H s      | in.           | - 1     |         | 1 | - 1       |           |          | - 1      |   | 1        | - 1          |         | 1        | ı       |   |

Date

If more than 150 claims or 10 actions staple additional sheet here

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